



Institute announces final design for new nanotech laboratory

\$350 million facility will stand in the current location of Building 12

By Kath Xu

NEWS EDITOR

Starting in spring 2018, MIT nanotechnology researchers will no longer have to go to Harvard to find suitable lab equipment. On Tuesday, MIT announced that it has committed \$350 million to the construction of a new state-of-the-art nanoscale research facility.

Dubbed "MIT.nano," this building will be located at the heart of MIT's campus and take four years to complete. Construction will begin in June, but will significantly affect access to parts of campus near Building 12, the future site of the new structure.

Currently, most MIT nanoscale researchers either do their work in the Microsystems Technology Laboratories in Building 39 or in their own small labs.

"If you look at the trend of the young professors coming into MIT, the disciplines we're developing at MIT, the student interests, the world needs — if you look at all of those, the component of nanotechnologies just permeates everything that we do," said Prof. Vladimir Bulovic, the faculty lead on this project and MIT School of Engineering's Associate Dean for Innovation.

Bulovic estimates that over 2,000 researchers will make use of the new facility. One of these researchers is Prof. Polina Anikeeva



COURTESY OF WILSON ARCHITECTS

MIT.nano from in front of Building 13, looking east toward Building 26.

PhD '09, who uses nanomaterials to develop minimally invasive medical treatments.

"For a long time, [nanotechnology] was just science and we were

playing in the lab and doing measurements and it was really fun," said Anikeeva. "But now it's exploding and it's really becoming its own field... Nanotechnology has entered

every part of engineering."

"Part of the reason why people keep using the Harvard facilities is

MIT.nano, Page 14

Four MIT faculty elected to the National Academy of Sciences

Four MIT professors are among the 84 members newly elected to the National Academy of Sciences this year, according to an MIT News Office press release. The new members, announced Tuesday, are economics professor Daron Acemoglu, brain and cognitive sciences professor Emery Brown, biology professor Alan Grossman, and Earth, Atmospheric, and Planetary Sciences professor Timothy Grove.

Including these new members, MIT now claims 77 MIT faculty members who have been elected to NAS.

According to the NAS's announcement, new members are elected "in recognition of their distinguished and continuing achievements in original research." There are now a total of 2,214 active NAS members.

Daron Acemoglu is the Elizabeth and James Killian Professor of Economics. His research centers on economic development, political economy and economic growth theory. Acemoglu is a co-author of *Why Nations Fail: The Origins of Power, Prosperity and*

Natl. Academy, Page 11

Six Mass. colleges scrutinized for sexual assault case handling

Harvard College and Law School, Emerson College, Boston University among 55 schools named by feds

By Evan Allen

THE NEW YORK TIMES

In an unprecedented move, the U.S. Department of Education released a list Thursday of 55 colleges across the country — including six in Massachusetts — facing federal investigations into their handling of sexual assault and harassment complaints.

Harvard College, Harvard Law School, Boston University, Emerson College, Amherst College, and the University of Massachusetts Amherst are among the schools under scrutiny for compliance with Title IX, a federal law that prohibits gender discrimination. Also on the list are two other New England schools, the University of Connecticut and Dartmouth College.

The publication of the list, tied to a White House push to hold col-

leges more accountable for how they handle sexual assault cases, was praised by students who want to increase attention on the problem.

"I think if people know and understand what's going on, and they know what's happening, they can demand change for their schools," said Sarita Nadkarni, 22, who was among several Emerson students who signed a complaint against the school last year accusing officials of failing to properly respond to their reports of sexual assaults. Emerson has pledged to improve its response to allegations of such attacks.

Meanwhile Thursday, more than 100 Tufts University students rallied on the Medford campus in the wake of a ruling earlier this week by the Department of Education's Office for Civil Rights that the

school is violating Title IX and not doing enough to ensure the safety of students. The protesters staged a rally then planted themselves on the academic green, holding signs and wearing T-shirts that read "I stand with survivors."

Students were demanding Tufts improve both prevention efforts and its investigations and discipline in assault cases. Equally important, according to Leah Muskin-Pierret, 19, a sophomore who helped organize the rally, is pressing the university to admit assaults are a problem on campus.

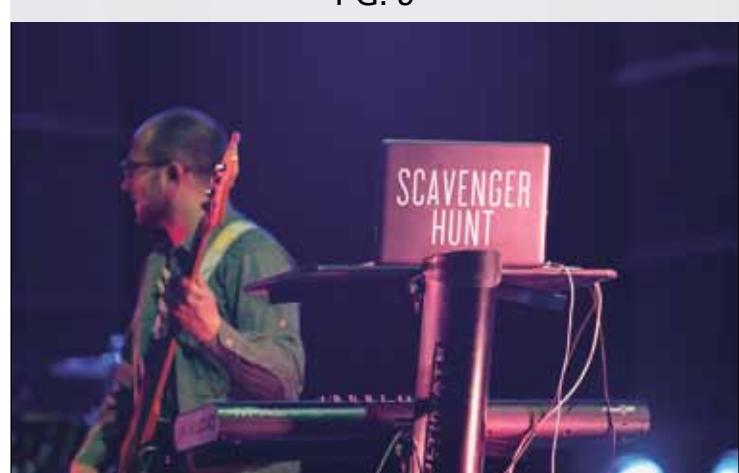
"That's what's most disgusting," she said. "Tufts is basically saying, 'Sorry, federal government, you're wrong.'"

Yet by the end of the day, student organizers released a joint

Title IX, Page 12

SPRINGFEST 2014

PG. 9



The bassist for Scavenger Hunt performs on Saturday, April 26 for MIT's annual SpringFest Concert.

IN SHORT

Seniors in MIT Civil and Environmental Engineering Senior Design (1.013) will present their final project — Clarity — on Tuesday, May 6. Clarity is an air quality sensor network deployed on MIT's campus. The event will be held from 4-5 p.m. with a post-event reception in 46-3002, the Brain and Cognitive Sciences Building.

The Cambridge Police Department is holding a free on-bike training session on Sunday, May 10 at 2 p.m. at the Alewife T Station Bike Cage.

The training will cover the basics of riding a bike, and is geared toward new bike riders.

Want to learn more about MIT.nano? Prof. Vladimir Bulovic and other members of the project team will hold a community meeting on the new facility next Mon-

day, May 5 from 3-4 p.m. in 1-190 and Tuesday, May 6 from 2-3 p.m. in 10-250.

Pre-registration is now open! Students must start the process before Monday, June 16 in order to avoid a late fee. Students can change selections until 5 p.m. on Tuesday, Aug. 19. Pre-registration can be completed on Websis.

Send news information and tips to news@tech.mit.edu.

DEBUGGING

No, like, seriously. De-bugging. FUN, p. 5

EXTREMES OF BALLET

Interview with dancer in *Pricked*. ARTS, p. 8

THE KNIFE IN BOSTON

Swedish group shakes things up. ARTS, p. 7



HOW TO SPEND YOUR BITCOIN

UPPERCUT gives some gentle suggestions on how to spend your \$100 worth. FUN, p. 5

TECHDOKU

Seriously. It's a Friday. You don't have anything to do. Do a Techdoku. FUN, p. 6

SECTIONS

World & Nation . . . 2
Opinion 4
Fun Pages 5
Arts 7
Sports 16

Sex assault victims in military more likely to step forward

WASHINGTON — Reporting of rape and other sexual assaults in the military is up by 50 percent, according to a Defense Department report that was released Thursday. White House and Pentagon officials said it was a welcome sign of increased confidence among victims that recent steps by military leaders show the Pentagon is taking these cases seriously.

But critics said there was no way to know whether the increase in reporting simply means that there were more sexual assaults, because unlike in the previous two years, the Defense Department did not estimate how many sexual assaults took place overall in 2013. "Prevalence" surveys estimated that there were 19,000 sexual assaults in 2011 and 26,000 in 2012. Despite those numbers, there were only 3,192 reported assault cases in 2011 and 3,374 in 2012.

By contrast, the number of reported cases jumped to 5,061 in 2013. But "since today's report does not include a total estimated number of crimes committed, it is impossible to draw any conclusions regarding the number of increased reports," said Sen. Kirsten E. Gillibrand, D-N.Y. Gillibrand unsuccessfully pushed a bill early this year that would have removed sexual assault cases from the military chain of command.

Nonetheless, Gillibrand said the latest report "should send chills down people's spines," because even the known numbers show that less than 1 percent of reported cases — just 484 out of the 5,061 — proceed to trial. Of those, there were 376 convictions.

—Helene Cooper, *The New York Times*

Toronto mayor takes leave after admitting alcohol abuse

TORONTO — Citing "a problem with alcohol," Toronto Mayor Rob Ford said late Wednesday that he was temporarily stepping aside from his duties as mayor and from his re-election campaign.

The statement from the embattled mayor followed the online appearance of a still photograph from a video that The Globe and Mail said appears to show Ford smoking crack cocaine last weekend. The Toronto newspaper said that two of its reporters were shown the video by "a self-professed drug dealer" who was trying to sell it.

He made no reference to crack or other illegal drugs in his statement Wednesday. Instead he said that he had been unable to control his problem with alcohol.

—Ian Austen, *The New York Times*

GM sales advance 7 percent, seemingly unfazed by recalls

Despite a steady drumbeat of negative news surrounding the recall of 2.6 million small cars with a deadly defect, General Motors continues to be unaffected in its showrooms.

Car sales for the nation's largest automaker rose 7 percent in April over the same month a year ago to 254,076, the company said Thursday. The increase follows a 4 percent increase in March, which was the first full month since GM began recalling the cars in February for a defective ignition switch that it has linked to 13 deaths.

Sales numbers were mixed for the domestic automakers; Chrysler stood out with a 14 percent increase in sales, and Ford declined 1 percent.

Overall for the industry, sales were up 8 percent over April of last year, with 1.39 million vehicles sold in the United States for a seasonally adjusted annualized rate of 16 million vehicles, according to Autodata.

As in March, healthy overall growth suggested that some car buyers had postponed their purchases during the bad weather over winter.

—Rebecca R. Ruiz, *The New York Times*

Turkish protesters defy May Day ban, dozens detained

By Sebnem Arsu and Ceylan Yeginer
THE NEW YORK TIMES

ISTANBUL — Thousands of demonstrators took to the streets of Istanbul on Thursday in May Day rallies, confronting riot police officers to protest, lashing out against a government mired in a corruption scandal and accused of imposing a creeping authoritarianism in Turkey.

Police fired tear gas, used water cannons and shut down main streets to disperse hundreds of protesters seeking to challenge a government ban on May Day celebrations in Taksim Square, also the scene of anti-government protests last summer against the administration of Prime Minister Recep Tayyip Erdogan.

More than 140 people were detained and 90 people, including 19 police officers, were injured in clashes that continued in the main and back streets of central Istanbul until early afternoon, the Istanbul Governor's Office said in a statement.

May Day, or International Workers' Day, historically has been a lightning rod for violence in Turkey as people have used the occasion to convey their grievances. May 1 was declared a national holiday in 2009.

May Day demonstrations also took place in parts of Asia, including Hong Kong and Seoul, where anger following a recent ferry sinking in South Korea was expected to give the protests particular resonance. Thousands of Russian workers gathered in Red Square in Moscow in a show of the patriotism that has surged following events in Ukraine.

In Turkey, anger against Erdogan has grown in recent months as a corruption scandal has plunged his government into crisis and challenged the position of the prime minister, who has held power for more than a decade. In recent weeks, Erdogan has infuriated the country's secular, liberal class by seeking to ban Twitter and clamping down on social media. Critics have also accused him of abusing his power by purging police officials and judges in an apparent attempt

to undermine a corruption investigation that has ensnared him and key allies.

The protests Thursday were some of the largest since mass demonstrations across Turkey last June, when tens of thousands of people demonstrated against Erdogan's government.

To quell the latest protests, nearly 40,000 police were mobilized in Istanbul, according to law enforcement officials, and the government shut down bus and ferry lines and blocked roads leading to Taksim Square. But several unions and civic groups defied the restrictions, claiming the ban was illegal.

Hurriyet, a leading newspaper, reported that a man intent on joining the May Day protests had tried to hijack an airplane going from Nicosia, Cyprus, to Ankara, Turkey, on Thursday, locking himself in the plane's bathroom and threatening to detonate a bomb if the flight wasn't diverted to Istanbul. The newspaper said the flight landed in Ankara, where the suspected hijacker, a 50-year-old man, was arrested by the police.

Seattle mayor details plan for \$15 minimum wage

By Kirk Johnson
THE NEW YORK TIMES

SEATTLE — Mayor Ed Murray presented on Thursday what he described as an imperfect but workable plan to increase the city's minimum wage to \$15 an hour, more than twice the federal minimum wage and one of the highest anywhere in the nation, through a series of complex and phased-in stages. Just as crucially, he said, the plan has broad political support, with a coalition of labor and business groups ready to push hard for it at the City Council, starting with the first hearings next week.

But the plan, which in many other cities might be seen as a liberal Democratic agenda at the frontier of social and economic engineering, was immediately attacked not from the mayor's right, but from his left.

Kshama Sawant, a Socialist Alternative Party member who was elected to the Seattle City Council

last year on a single-minded drive to raise wages, said the plan had been "watered down" by business interests on the mayor's 24-member committee on income inequality, of which she was also a member.

In a packed news conference at City Hall right after Murray's, she called on her supporters to continue their effort to gather signatures for a possible ballot initiative on wages this fall. The campaign might also put pressure on the council to make the mayor's plan better for workers, she suggested.

"Every year of a phase-in means yet another year in poverty for a worker," Sawant said. "Our work is far from done."

Murray, a Democrat and former state senator, formed his special committee on income inequality this year — headed by a labor union leader and a business executive — and gave them three months to find common ground. While running

for mayor last fall, he, like Sawant, pledged to support a \$15 minimum wage.

The result, in an agreement reached late Wednesday, with 21 of the 24 members supporting the plan, he said, was a two-tiered minimum-wage structure. Employers with more than 500 workers — no matter where those workers are around the nation — would move on a faster track toward \$15 than smaller employers. Tips and employer-paid health care benefits also would be factored in getting to the \$15 level for smaller companies, at least in the earlier years of the plan.

The result is a disparity, at least in the rate of pay increases, if not the final destination: Some workers would get to \$15 an hour as early as 2017, with a cost-of-living adjustment after that tied to the Consumer Price Index, while other workers, at smaller companies, would not see \$15 until 2021.

WEATHER

Springtime temperatures for the weekend

By Kathryn Materna and Will Conway
TECH STAFF

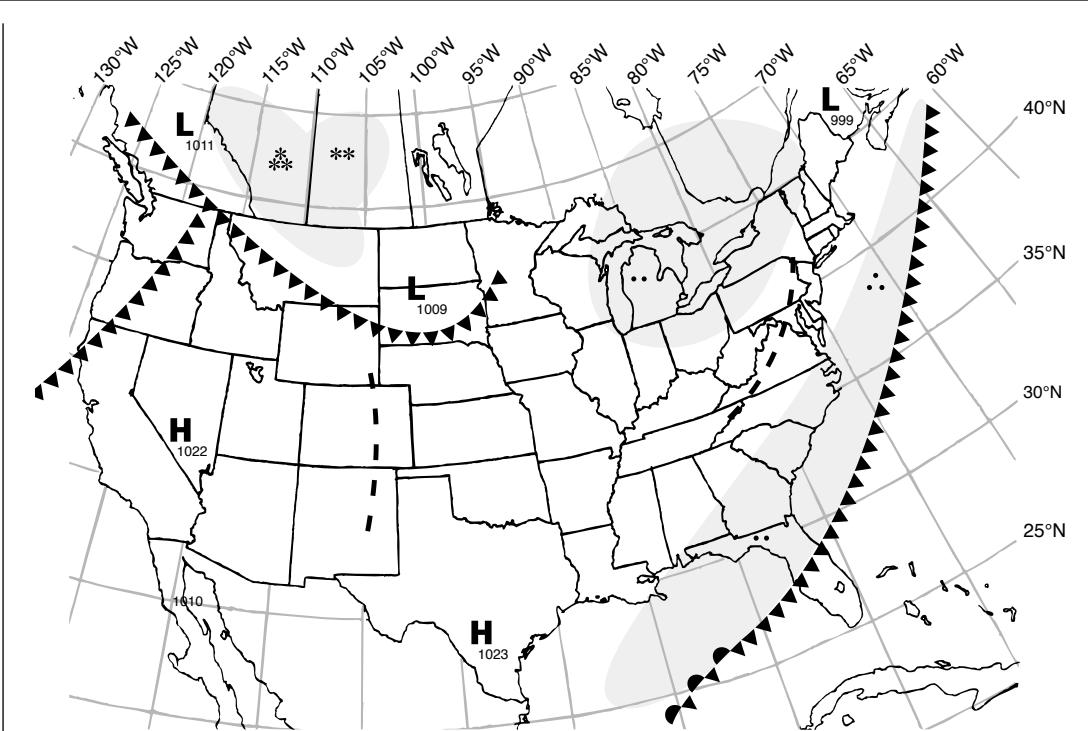
After a week filled with temperatures in the 40s and on-and-off rain, Boston will finally see some nicer weather this weekend. Each day for the next few days will have a mix of sun and clouds with temperatures in the 60s. A mass of cold air high in the air column will move over the region on Sunday, creating an instability in the atmosphere. This sys-

tem could generate showers and thunderstorms on Sunday afternoon. Depending on the strength of the instability, some forecasts have even predicted the slight possibility of hail.

For the most part, however, the weekend will be dry and warm, giving MIT students a good chance to get outside, go sailing, and otherwise enjoy the spring weather. The long-term forecast for next week looks sunny with highs in the low 60s.

Extended Forecast

Today: Mostly cloudy, with a high of 67°F (19°C). Winds from the west at 10-15 mph.
Tonight: Partly cloudy, with a low of 49°F (9°C). Winds from the west at 5-10 mph.
Tomorrow: Partly cloudy with a high of 65°F (18°C). Southwest wind of 8 to 11 mph.
Sunday: Partly sunny with a high near 63°F (17°C). Chance of afternoon showers or thunderstorms.
Monday: Mostly sunny with a high near 61°F (16°C).



Situation for Noon Eastern Time, Friday, May 2, 2014

Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
H High Pressure	— Trough	Snow	Fog
L Low Pressure	— Warm Front	Rain	Thunderstorm
§ Hurricane	▲▲▲▲ Cold Front	>Showers	Haze
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Report: Transparency in online data collection needed

By David E. Sanger and Steve Lohr
THE NEW YORK TIMES

WASHINGTON — The White House, hoping to move the national conversation on privacy beyond data harvesting by intelligence agencies to the practices of companies like Google and Facebook, released a long-anticipated report on Thursday that recommends requiring private companies to release information they gather from their customers online.

The report, whose chief author is John D. Podesta, a senior White House adviser, is part of the administration's reaction to the disclosures of global surveillance by Edward J. Snowden, the former contractor for

the National Security Agency. The effort is viewed with suspicion in Silicon Valley, where companies see it as the start of a government effort to regulate how they can profit from the data they collect from email and Web surfing habits.

The report focuses on mosaic techniques that allow companies, in the guise of collecting anonymous data from large groups of users, to identify an individual's activities online.

The report suggests steps Congress could take, including a mandatory system that would force firms to report data breaches — like the one that led to the theft of credit card data from 100 million Target customers last year. A similar measure failed two years ago as part of a broader cy-

berprotection bill.

The report also recommends extending U.S. privacy rights to foreigners, on the theory that there are no boundaries when it comes to the data collected online. President Barack Obama declared in January that the government would do the same in the treatment of data it collected through the NSA and other intelligence groups.

Podesta, said the president was surprised during his review of the NSA's activities that "the same technologies are not only used by the intelligence community, but far more broadly in the public and private spheres because there is so much collection" from the Internet and smartphones. "You are shedding data everywhere," Podesta said.

Seeking court's help, GM hopes to stop suits

By Hilary Stout and Bill Vlasic
THE NEW YORK TIMES

An unusual meeting took place this week at a law office high in a Times Square skyscraper. Lawyers from about 100 law firms participated, either in person or by phone. The agenda: solidifying a strategy for taking on General Motors in bankruptcy court.

Less than five months after declaring the era of "Government Motors" over and done with, the new GM, which just completed its 17th consecutive profitable quarter, will

be back before Judge Robert E. Gerber in the U.S. Bankruptcy Court of the Southern District of New York Friday, girding for a new fight.

On the surface, GM is merely asking the judge to enforce a provision of its July 10, 2009, bankruptcy reorganization that insulated the "new" company from lawsuits stemming from accidents that occurred before that date.

But the reason for the request is far from routine. The company is trying to shut down a rising tide of class-action lawsuits stemming from its recall of 2.6 million cars because

of a dangerously defective ignition switch that it now links to 13 deaths. Asking a judge to enforce part of a restructuring happens in many bankruptcy cases. But in this situation, some bankruptcy experts say, it may be a risky move. Objections have poured into the court from plaintiffs in cases around the country alleging that the company committed fraud during the bankruptcy proceedings five years ago by not disclosing the potential liabilities from the faulty switch, a problem it now admits was known in parts of the company for more than a decade before the recall.

With security tight, Iraqis cast votes in unaccustomed peace

BAGHDAD — Millions of Iraqis voted for a new Parliament on Wednesday, defying threats from Islamist extremists, in an election that was carried out, by Iraq's brutal standards, in remarkable peace.

After a surge in violence leading up to the vote, and threats by a Sunni extremist group, the Islamic State of Iraq and the Levant, to strike polling sites, no attacks were reported in Baghdad, and none with any large numbers of casualties were reported elsewhere in the country.

The election, the first nationwide vote since the departure of U.S. troops more than two years ago, was seen as a referendum on Nouri al-Maliki's eight years as prime minister as he seeks a third term amid a growing Sunni insurgency that has brought the country to the edge of a new civil war. But with results pending, the story Wednesday was simply that the election was held at all, and that so few people were killed.

—Tim Arango and Duraid Adnan, *The New York Times*

Email suggests White House strategy on Benghazi

WASHINGTON — A newly released email shows that White House officials sought to shape the way Susan E. Rice, then the ambassador to the United Nations, discussed the Middle East chaos that was the context for the attack on the U.S. diplomatic mission in Benghazi, Libya, in 2012.

The email dated Sept. 14, 2012, from Benjamin J. Rhodes, the deputy national security adviser, to Rice was obtained by the conservative group Judicial Watch through a Freedom of Information Act request. The subject of the email was: "PREP CALL with Susan."

That email was sent ahead of Rice's appearance on several Sunday morning news talk programs three days after the attacks that resulted in the deaths of four Americans, including J. Christopher Stevens, the ambassador to Libya.

The email from Rhodes includes goals for Rice's appearances on the shows and advice on how to discuss the subject of the protests that were raging in Libya and at other U.S. diplomatic posts in the Middle East.

Among the goals that Rhodes identified: "To underscore that these protests are rooted in an Internet video, and not a broader failure of policy." In a section called "Top-lines," Rhodes added: "Since we began to see protests in response to this Internet video,

Jay Carney, the White House press secretary, dismissed the new email as irrelevant, saying that the subject of the advice from Rhodes in the email was not about Benghazi but rather about the protests that were taking place across the Middle East at the time.

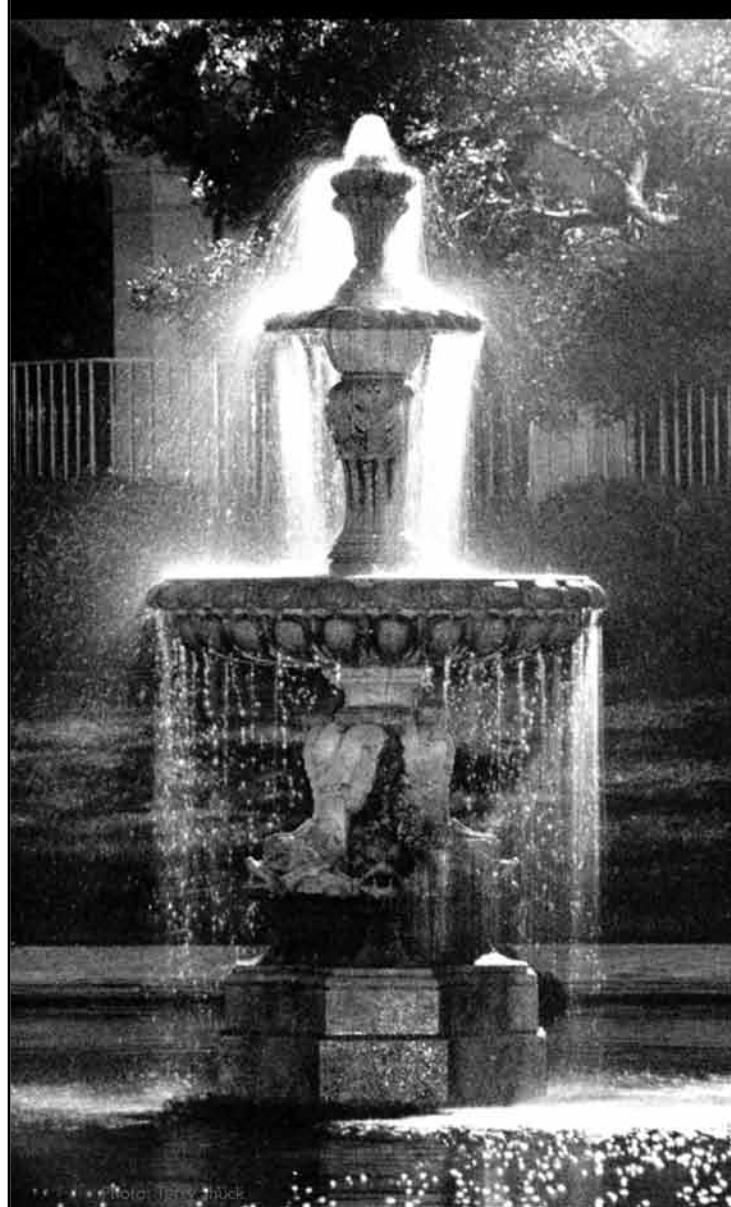
—Michael D. Shear, *The New York Times*

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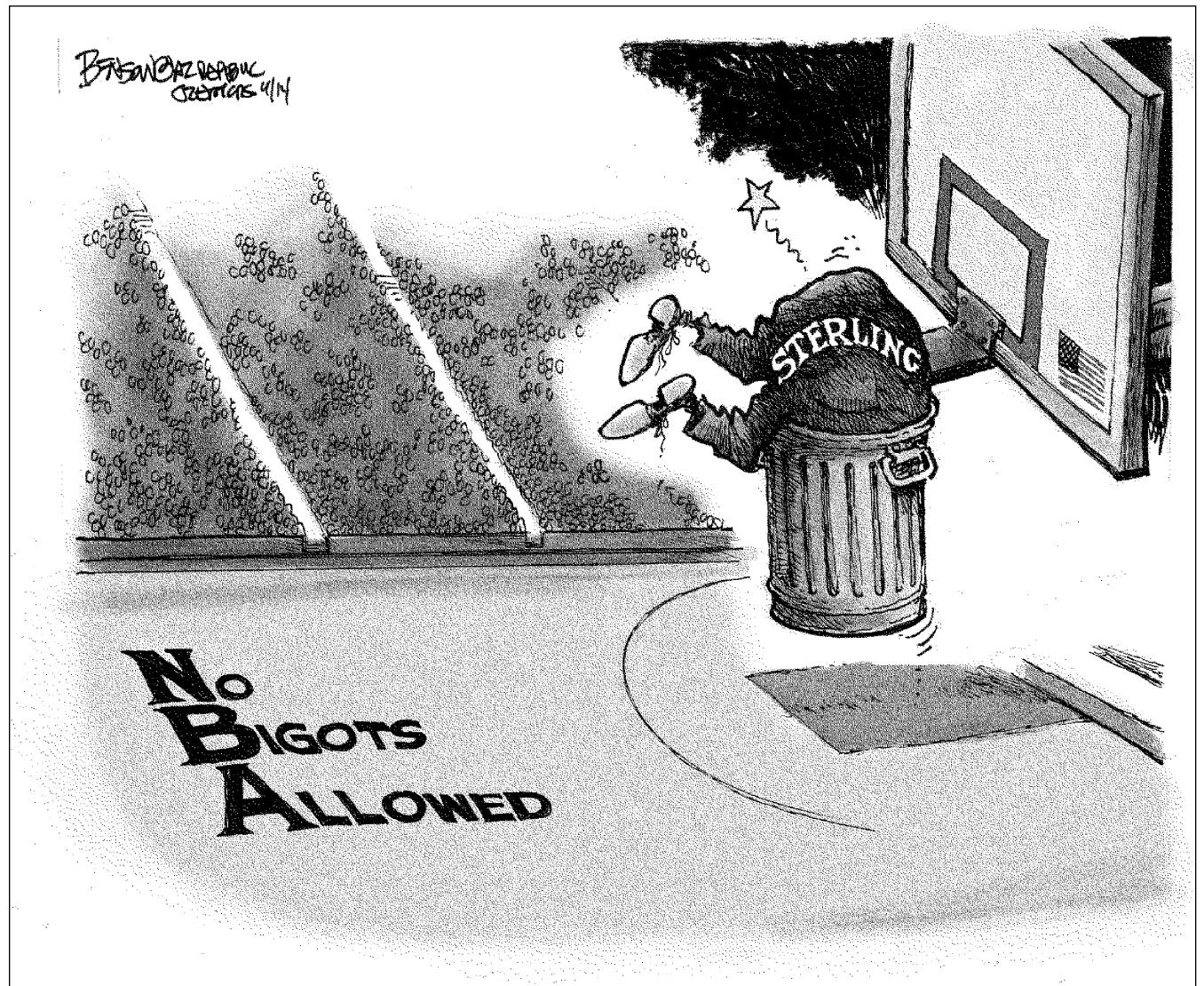
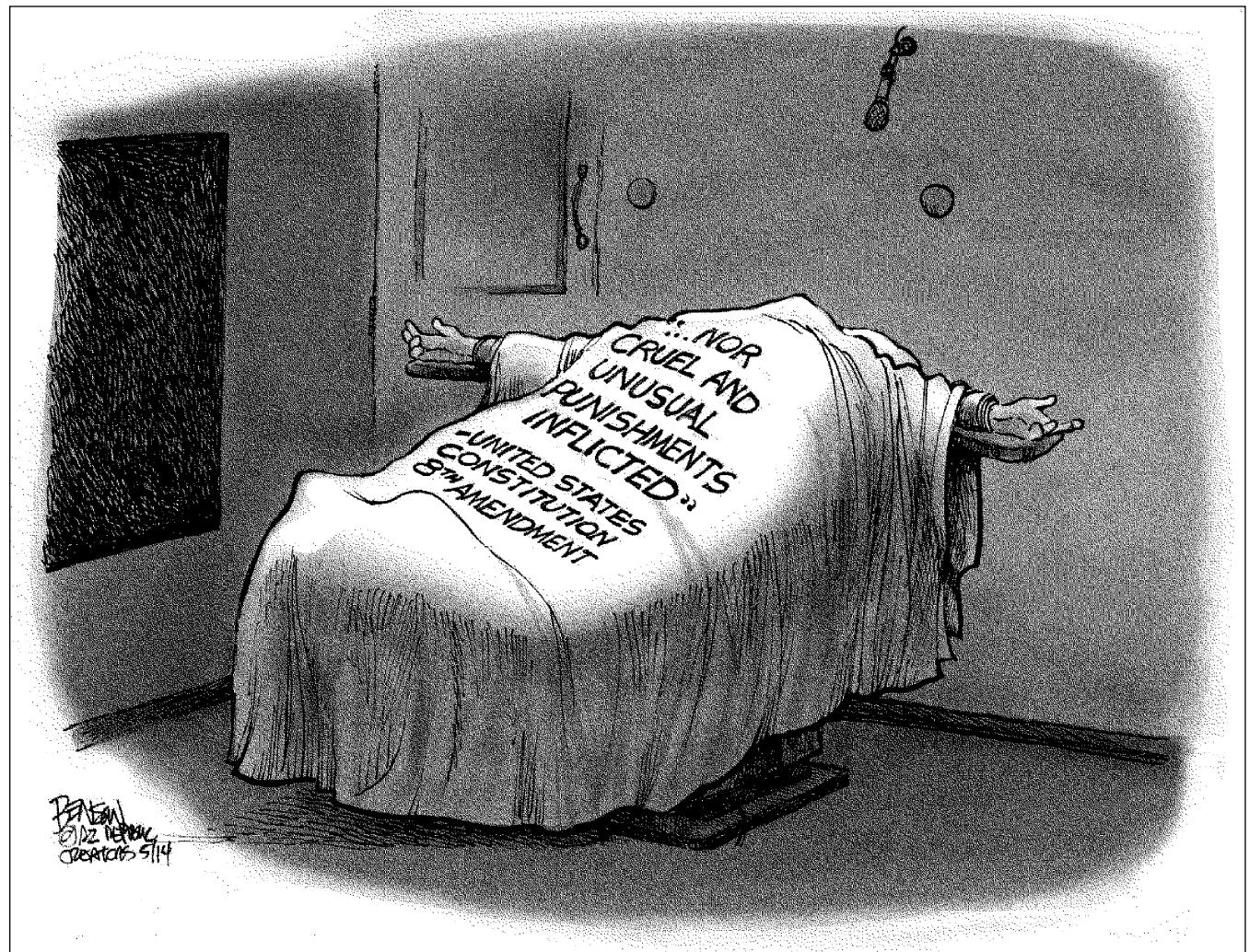
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CORRECTIONS

The print version of an article in the Tuesday, April 29 issue of *The Tech* incorrectly suggests that Professor Simon Johnson is involved with Rubin and Elitzer's project.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Annia Pan, Editor in Chief Austin Hess, Managing Editor Judy Hsiang, and Opinion Editor Jacob London.

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to letters@tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority.

Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on *The Tech*'s Web site and/or printed or published in any other format or medium now known or later that becomes known. *The Tech* makes no commitment to publish all the letters received.

Guest columns are opinion articles submitted by members of the MIT or local community.

TO REACH US

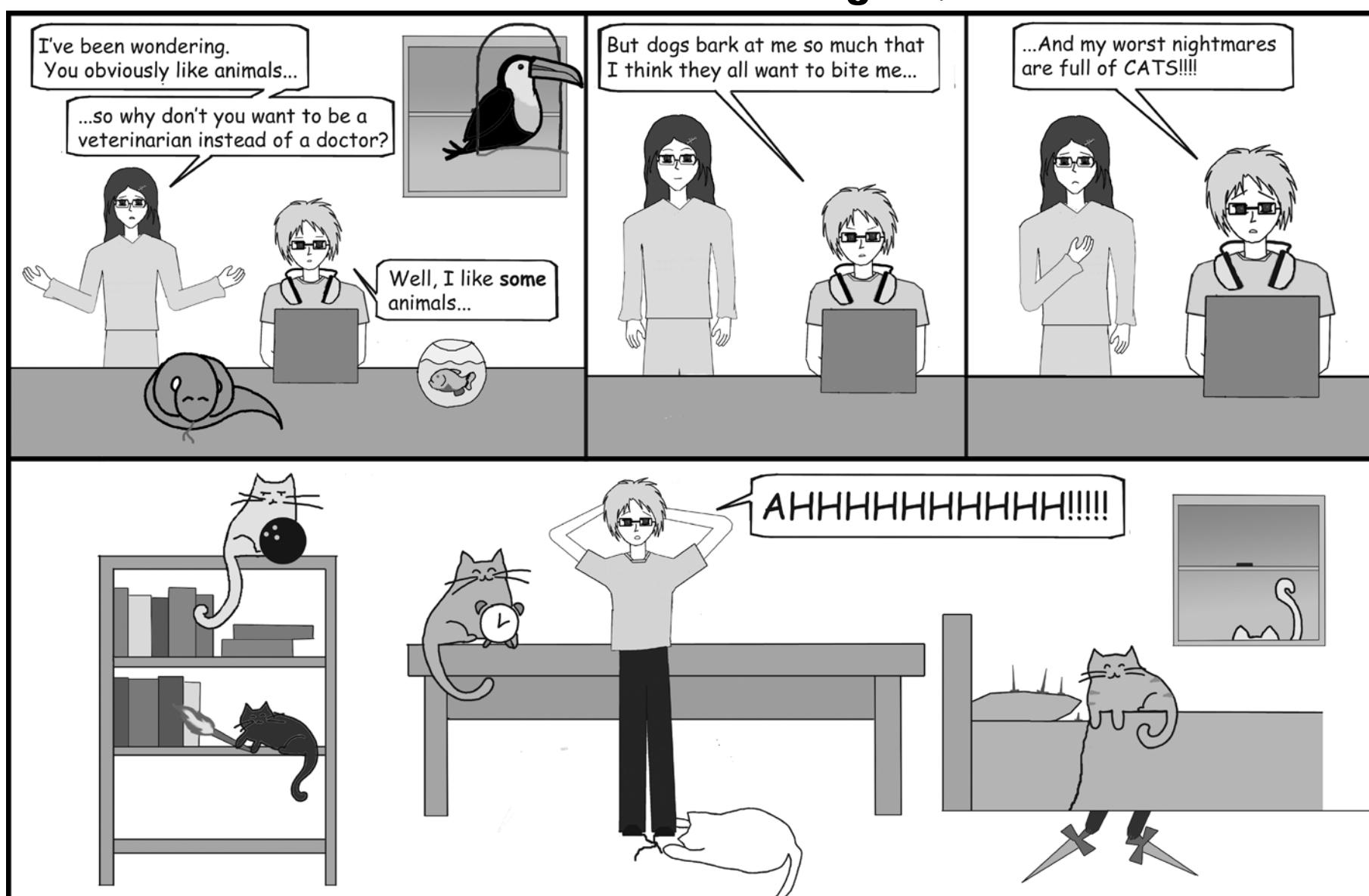
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UPPERCUT

 by Steve Sullivan


FUNFUNFUNFUNFUN

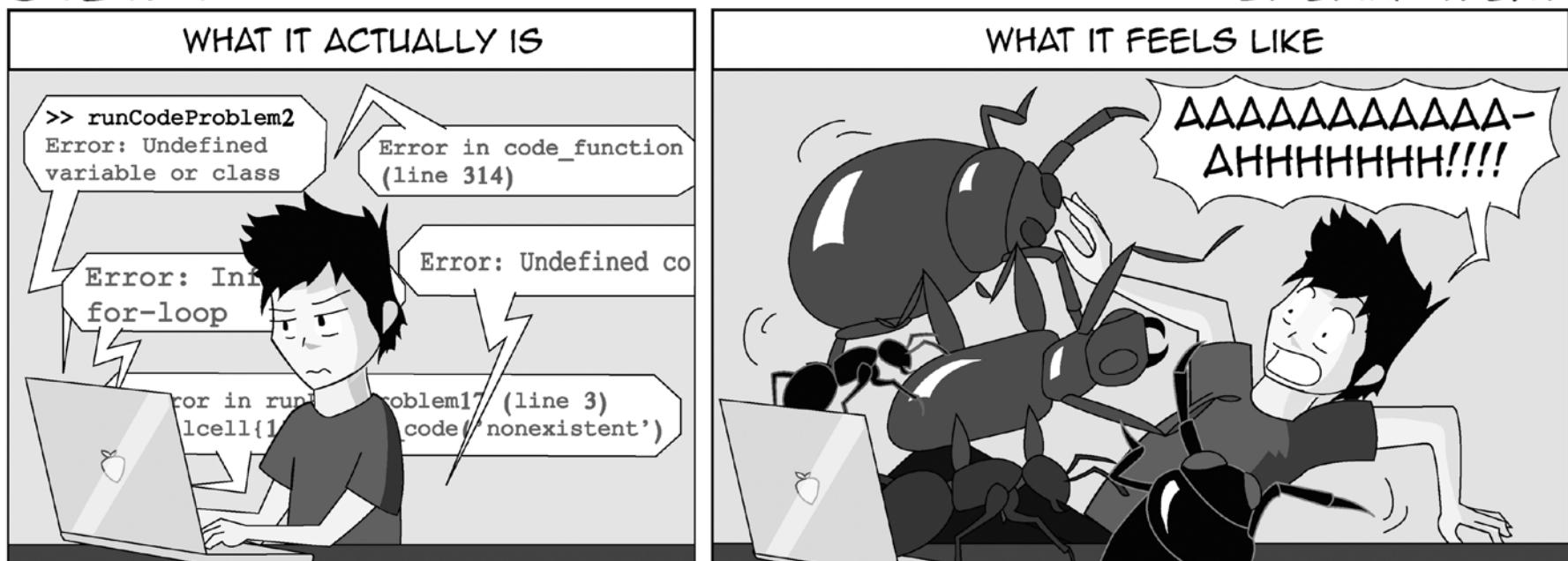
Somewhere on the Search for Meaning... by Letitia Li



FUN

Q.E.D. (QUITE EASILY DONE)

BY ERIKA TRENT

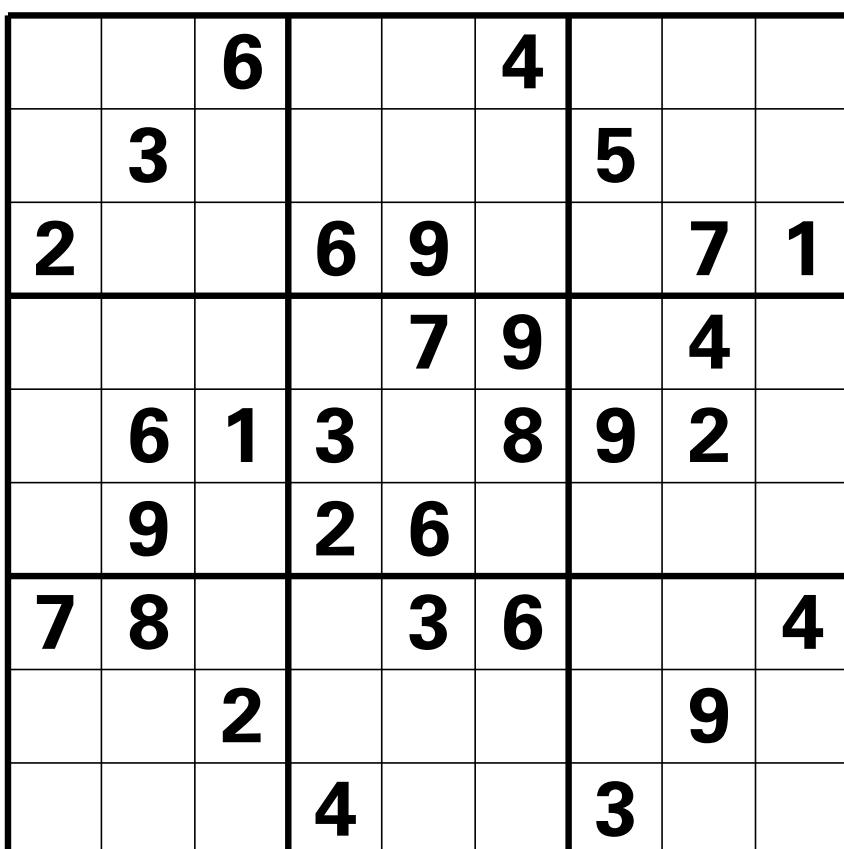




Postdocs get the personal satisfaction of being at MIT forever.

Sudoku

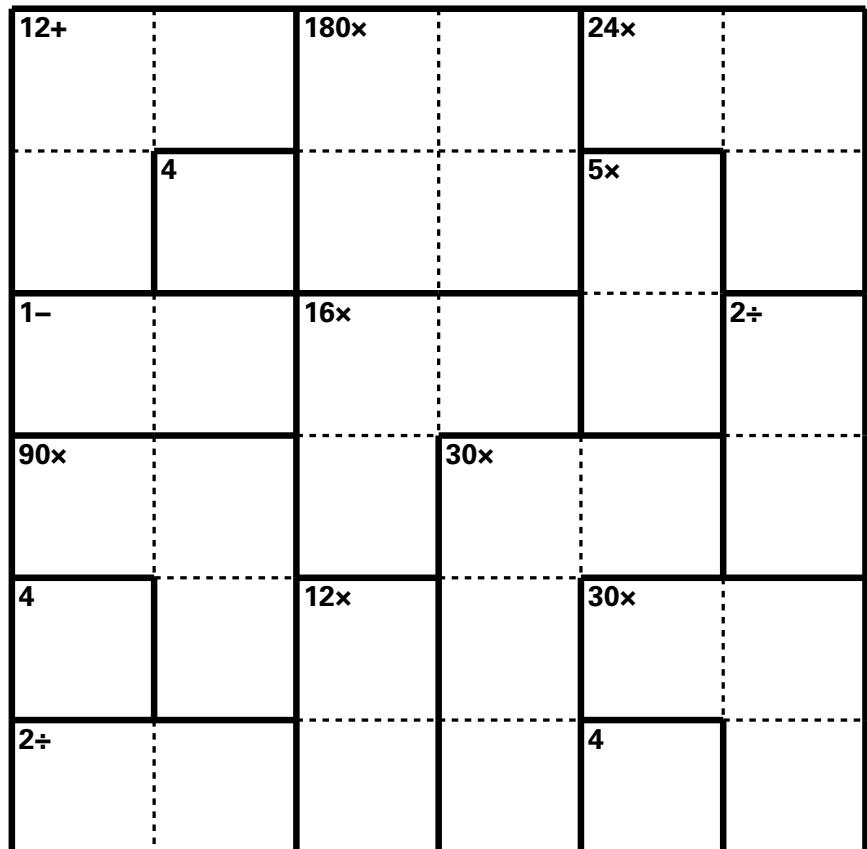
Solution, page 14



Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 14



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Key Club

by Fred Piscop

Solution, page 14

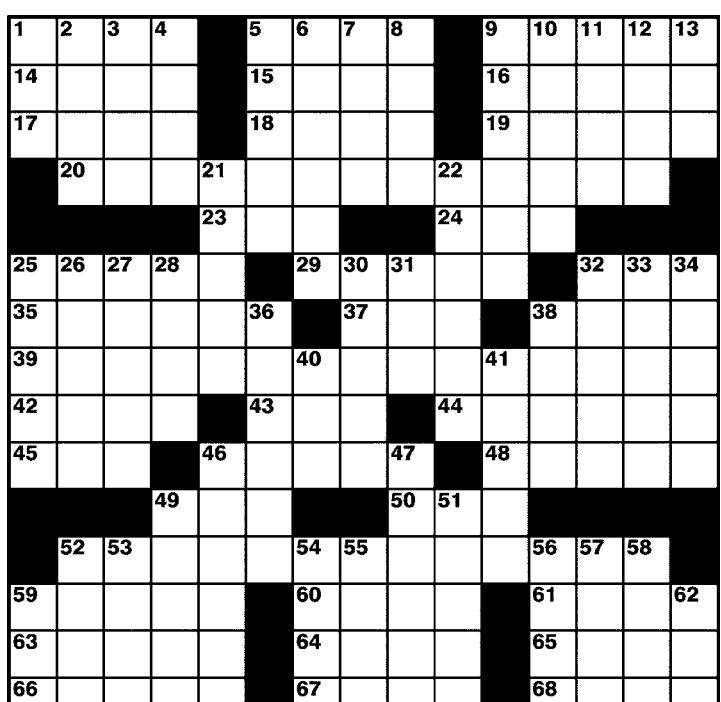
ACROSS

- 1 ___ Strip (Mideast region)
- 5 Barbershop touch-up
- 9 Play, as a ukulele
- 14 Wickedness
- 15 Tube-shaped sandwich
- 16 Tot's vehicle, for short
- 17 In like-new condition
- 18 Give off
- 19 Ran fast
- 20 Ness, Lomond, etc.
- 23 Cereal grain
- 24 Verse of praise
- 25 No longer crisp
- 29 Electrical power glitch
- 32 Hiatus
- 35 Catches sight of
- 37 Memoir, for short
- 38 Tableland
- 39 Features of cars' rear doors
- 42 Modern phone, for short
- 43 Olive of the comics
- 44 Bits of snow
- 45 Louvre display
- 46 Versifiers
- 48 Battery terminal

- 49 Polar helper
- 50 Prepare for battle
- 52 Fish served on bagels
- 59 Put restrictions on
- 60 Rotation line
- 61 Desertlike
- 63 Join forces
- 64 "A ___ formality!"
- 65 Do some darning
- 66 Barred to outsiders
- 67 Tip-jar fillers
- 68 Swampy grounds

DOWN

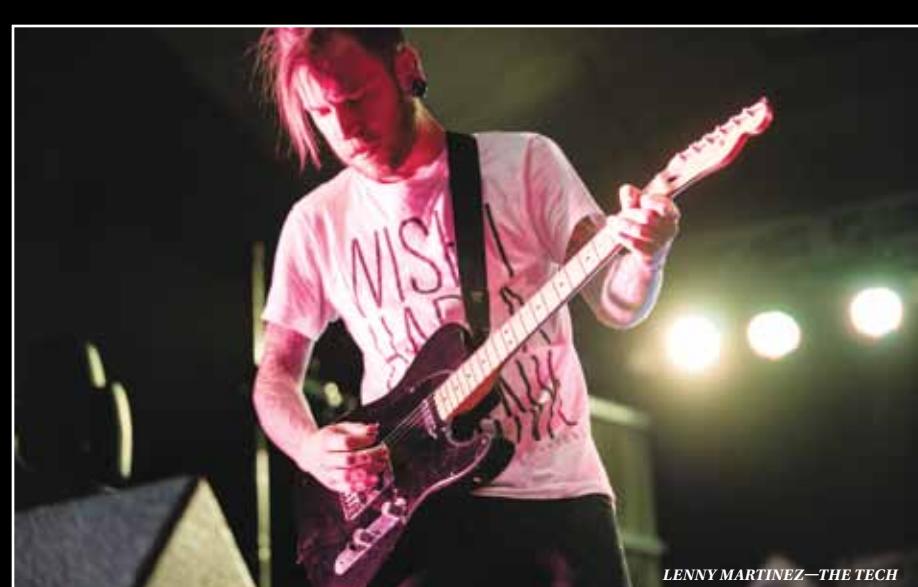
- 1 Jewel
- 2 Hertz rival
- 3 Metal in brass
- 4 Palo __, CA
- 5 Letter before iota
- 6 Sends payment
- 7 Colored part of the eye
- 8 Closet pest
- 9 Walked briskly
- 10 Tiny amount
- 11 High in calories
- 12 Luau strings
- 13 Prescription, for short
- 21 Trifled (with)
- 22 Exit the Web
- 25 Tourist magnet
- 26 Wedding aide
- 27 Overflowed
- 28 Cyclist's challenge
- 30 Letter-shaped fastener
- 31 Spaniard's river
- 32 Small lizard
- 33 Queried
- 34 Out of style
- 36 SNL fare
- 38 Complain, so to speak
- 40 Cereal grain
- 41 Camel's Peruvian cousin
- 46 Coated, as with metal
- 47 Irreverent fiction
- 49 Facebooker's party notice
- 51 Gets promoted
- 52 Ship of 1492
- 53 Don't include
- 54 Hunter's garb, for short



- 55 Plow pullers
- 56 Meat in moussaka
- 57 Creme-filled snack
- 58 PED __
- 59 Drag around
- 62 Oral care deg.



SPRING FEST '14



1. Guards scan the crowd as the indie pop band **Capital Cities** performs a lively set behind them.

2. A large number of students streamed in to watch the performances at Springfest, especially for the last set by **Flosstradamus**.

3. Lead vocalist for **Scavenger Hunt** performs on Saturday, April 26 for MIT's annual SpringFest Concert.

4. The lead guitarist for the Los Angeles band **Scavenger Hunt** plays a solo during Springfest's first set.

5. The crowd goes wild as the Chicago-based DJ duo **Flosstradamus** blasts a bass-heavy medley of songs.

1

2

3

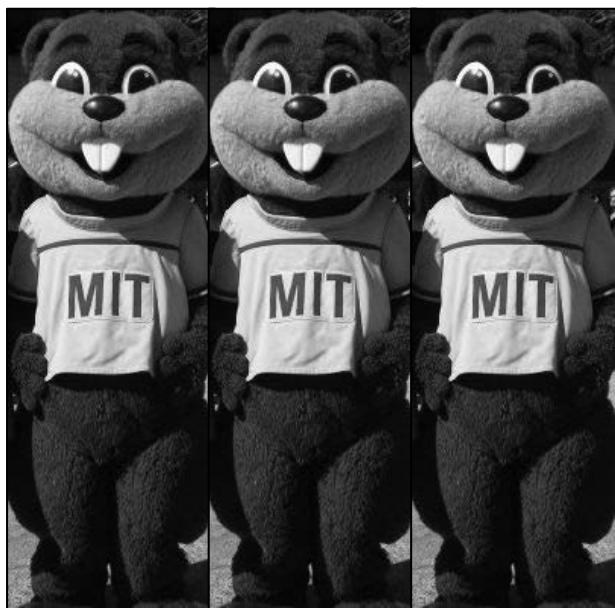
4

5



Getting help is as easy as 1, 2,

Student Support Services has tripled the number of walk-in hours May 5th – May 16th



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Natl. Academy, from Page 1

Poverty, an investigation of the underlying causes of state economic success and failure. According to the MIT News Office, Acemoglu was awarded the Erwin Plein Nemmers Prize in 2012 for his contributions to understanding political institutions, technical change and economic growth.

Professor Emery Brown, the Edward Hood Taplin Professor of Medical engineering, holds joint posts at MIT, Harvard Medical School, and Massachusetts General Hospital as an anesthesiologist-statistician. His work focuses on developing neural signal processing algorithms for data analysis in neuroscience. He has also researched the neurological basis of general anesthesia. According to MIT's press release, Brown is a member of the Institute of Medicine of the National Academies and a recipient of the NIH Director's Pioneer Award in 2007.

Alan Grossman, the associate head of the Department of Biology, employs a wide range of biological approaches to

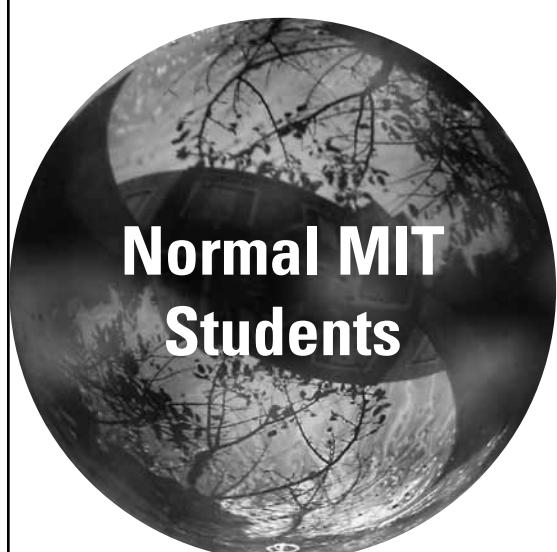
study how *Bacillus subtilis*, a bacterium, recognize and respond to internal and external stimuli. Grossman's research has focused on how these bacteria engage in cell-cell signaling, integrate physiological signals, control transcription and regulate DNA replication, according to MIT. Grossman has served as a fellow of the American Academy of Arts and Sciences since 2008.

Timothy Grove is the Cecil and Ida Green Professor of Earth and Planetary Sciences. His work focuses on planetary evolution, from the chemical differentiation of the Earth's crust and mantle to the formation of the core of the Moon and Mars. He served as the president of the American Geophysical Union from 2008 to 2010 and is a fellow of the American Academy of Arts and Sciences, according to MIT.

The NAS also announced Tuesday the election of 21 foreign associates from 15 countries, who are non-voting members with non-U.S. citizenship.

—Will Conway
and Austin Hess

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Brooms and bludgers on Kresge Lawn



The MIT Marauders square off against the Harvard Horntails in a friendly game of Quidditch this past Sunday outside of the Student Center. Based on the game from the Harry Potter series, the muggle version (usually) features slightly less flying.

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Feds to investigate Boston-area colleges

Six colleges in the state under scrutiny for possibly violating Title IX

Title IX, from Page 1

statement with the university pledging to work together on the issue. The university said it expects to be able to work out its differences with the Office for Civil Rights, and pledged a series of actions including a promise to review this summer the university's guidelines for disciplinary sanctions.

The Obama administration this week drew national attention to the problem of campus sexual assaults, saying one in five college women are victims of assault or attempted assault. A White House task force released a series of new guidelines for how schools should address the problem, including conducting surveys about the prevalence of sexual assault on their campuses, better training for administrators on how to work with victims, and making sure victims have the option to maintain confidentiality.

Making more information available to students was also a major focus, and the White House unveiled a new website, *notalone.gov*, offering resources for victims and information about prevention.

Even before Obama appointed the task force in January, his administration had made the issue

more of a priority than it had been in previous years. Guidelines released in 2011 encouraged more students to file complaints against their institutions for not handling their cases properly, which helps explain the large number of colleges being investigated today.

Many university officials, however, believe the administration's move to announce the schools under investigation is singling them out when they have not been found to have done anything wrong.

"There is a view that it's unfair to the institutions because they can't really try to explain it away in any fashion or answer it," said Ada Meloy, general counsel of the American Council on Education. "They need to be protecting the confidentiality of the student who may have complained."

According to a *Globe* review of Boston-area campuses in February, the number of reported forcible sex offenses rose by nearly 40 percent between 2008 and 2012.

For most of the universities in Massachusetts that are on the federal list, the probes had been previously reported in the media, but that was not the case for BU or UMass Amherst.

The Department of Education

does not release any information about ongoing inquiries beyond the name of the institution and the date the investigation began. Some alleged victims publicize their allegations, while others choose not to.

UMass Amherst said it is on the list not because of a specific complaint but because of a compliance review that began in 2011. In a statement, the university pledged its dedication to preventing sexual assault, for example, by training students on how bystanders can prevent violence.

According to Dorie Nolt, press secretary at the Department of Education, compliance reviews are "not random audits of schools," but launched based on data, news reports, or information from parents and advocacy groups "in order to remedy possible violations of students' rights."

In 2010, the *Globe* published a report from the New England Center for Investigative Reporting that a UMass student who confessed to raping a friend was allowed to remain enrolled and avoid significant discipline. The school acknowledged the error and said it led to changes in the disciplinary process.

A spokesman for Boston Uni-

versity said Thursday that its inclusion on the list stems from a complaint filed last October.

"While we believe the University provided the student with a prompt and equitable resolution of the complaint in full accordance with the requirements of Title IX, we are cooperating fully with OCR in its investigation and are always open to improving the manner in which we respond to any complaint of sexual misconduct," spokesman Colin Riley said.

The investigation into Harvard College was launched only last week, after a group of students filed a complaint asserting that Harvard has created a hostile environment for assault victims.

The Harvard Law School investigation has been open since December 2010. In 2011, attorney Wendy J. Murphy said she filed the complaint because the law school had policies that violated federal regulations, including waiting to address complaints until police and prosecutors had finished investigating, a practice she called "running out the clock," since the alleged victim might graduate in that time frame.

Globe correspondent Matt Rocheleau contributed to this report.



What's Going On?

MIT can be a bewildering place if you don't know what's going on.

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Call for Nominations

2014 School of Science Teaching Prizes for Undergraduate and Graduate Education

The **Teaching Prize for Undergraduate Education** recognizes outstanding teaching not only in the undergraduate subjects with large enrollments (such as those that satisfy the General Institute Requirements in science), but also in upper-level science subjects in which enrollments are smaller.

For the **Teaching Prize for Graduate Education**, preference will be given to nominees who teach mainstream subjects in which fundamental principles of the relevant fields are presented. Such courses typically provide the basis for advanced education and research and prepare students for professional careers.

Nomination letters from either faculty or students are welcome. Letters should indicate the name of the nominee, course taught, and reasons for nomination. Although one strong letter is sufficient, additional letters will strengthen the nomination.

Please submit nominations at <http://science.mit.edu/teaching-prize-nomination-form>. Nominations are due May 28, 2014.

For additional information please contact:

Annie Lee, School of Science, 6-131, ayl@mit.edu, 617-253-5951

MIT School of Science



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and we'll send you more info!



MIT.nano facility construction will begin in June

Pedestrian and bike traffic near Building 12 will be cut off; facility to open in spring 2018

MIT.nano, from Page 1

because our facilities are crowded," explained Anikeeva. "If there's a line of, you know, 300 people trying to use [a piece of equipment], sometimes it's easier to go to Harvard, and that's what people do. Our students are really productive and they want to be in the fab all day long fabricating things, and all night long potentially. We just do not have the sheer space and the quantity of machines to be able to accommodate that type of intense traffic."

With the new 200,000-square-foot building, Bulovic anticipates that there will be enough lab space for both MIT researchers and external users, such as startups and large companies.

Fundraising is currently ongoing for the project, and has involved MIT researchers advocating the importance of their research,

according to Prof. Kripa Varanasi PhD '04, whose work focuses on nano-engineered surfaces.

Although five campus locations were initially considered, Building 12 was ultimately chosen as the site of construction.

"Having a building being shielded from other road surfaces is very, very valuable," Bulovic said. "You're far away from the T line and the railroad line. The T generates a lot of noise, both electromagnetic and mechanical noise. Every five minutes, my experiment would be interrupted."

Locations on the outskirts of campus were eliminated because MIT did not want to include offices in MIT.nano, which would have taken up valuable lab space. In addition to minimizing the amount of noise and vibrations, MIT.nano will also house cleanroom facilities. According to Bulovic, cleanliness is critical at a scale in which

a dust particle is like "the size of a wrecking ball."

Bulovic expects the future facility's central location will allow researchers from all over campus to meet to discuss and share ideas.

"Our ability to innovate comes from the fact that MIT has such an easy way of crossing boundaries. You never have a sense of leaving your own department because everything is connected," said Bulovic. "MIT.nano is meant to be a gathering community place. It is those impromptu meetings over a water cooler... that spark a tremendous number of ideas, and open up the vision of the opportunities."

However, MIT.nano's central location comes at the cost of a difficult construction process. Bulovic compared the construction process to trying to build a ship in a bottle. The daily routine of many MIT community members will likely be affected by the construction.

From now until spring 2018, no bicyclists or pedestrians will be allowed through the road between Buildings 13 and 31. Pedestrians will be able to walk under the overhang of Building 13, but no further. Pedestrians will instead have to go through the Infinite Corridor, while bicyclists will be directed towards Vassar St.

"We're going to be crimping the style of the number of people," said Bulovic. "That's really, really unfortunate. It's a consequence of wanting to be next to everyone in center campus. If you're going to build something for center campus, we're going to have to inconvenience everyone inside center campus as we're doing it."

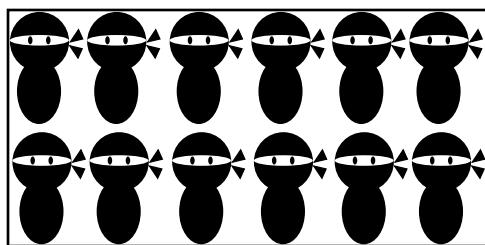
Because of the lack of accessible roads, trucks will mainly only be able to deliver material through the opening under Building 39 at the side of Vassar St. Bulovic expects typical heavy truck traffic to

begin at about 9 a.m. and end at 3 p.m. However, construction itself will likely begin at 6 or 7 in the morning.

"We're building a building now that is meant to last 30 years," said Bulovic. In the long term, he expects that the building will stand for 150 years, with periodic renovations in between.

Bulovic and other members of the project team will present their facility design and upcoming construction activities at a community meeting next Monday, May 5 from 3-4 p.m. in 1-190, and next Tuesday, May 6 from 2-3 p.m. in 10-250.

"Having these facilities right here makes it that much more easy to have the next breakthroughs," said Varanasi, who also sees MIT.nano as a prime site for nanotech entrepreneurs. "I'm looking at the center as an investment that will lead to not only great science, but also great products."



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Solution to Techdoku from page 6

1	6	5	2	3	4
5	4	3	6	1	2
3	2	1	4	5	6
6	5	4	1	2	3
4	3	2	5	6	1
2	1	6	3	4	5

Solution to Sudoku from page 6

9	7	6	5	1	4	8	3	2
1	3	4	7	8	2	5	6	9
2	5	8	6	9	3	4	7	1
8	2	3	1	7	9	6	4	5
5	6	1	3	4	8	9	2	7
4	9	7	2	6	5	1	8	3
7	8	5	9	3	6	2	1	4
3	4	2	8	5	1	7	9	6
6	1	9	4	2	7	3	5	8

Solution to Crossword from page 6

GAZA	TRIM	STRUM
EVIL	HERO	TRIKE
MINT	EMIT	RACED
SCOTTISH	LOCHS	
OAT	ODE	
MUSHY	SURGE	GAP
ESPIES	BIO	MESA
CHILD	PROOF	LOCKS
CELL	OYL	FLAKES
ART	POETS	ANODE
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Ronald E. McNair Scholarship Award
Camille A. DeJarnett '14 Elise M. Myers '14
Joshua V. Sibblias '14
Priscilla King Gray Award
Jean-Philippe Coutu
Sherry Fu '14
Laya Wiesner Community Award
Borislava (Bori) Stoyanova
Laya W. Wiesner Award
Rachel H. Keeler
Gordon Y Billard Award
Claude Canizares
Roger and Dorothy Mark
Karl Taylor Compton Prizes
Anna Ho '14 Leonid Grinberg '14
Patrick Hulin '14

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MIT cricket team squares off against Babson College for top ranking in league

Engineers win big in showdown, look ahead to upcoming matches against Yale and Harvard

Koustuban Ravi
TEAM REPRESENTATIVE

MIT's cricket team locked horns with Babson College in an away game at Babson Park, Massachusetts on Sunday, April 27. Much was at stake for the Engineers, as a win would take them to pole position in the American College Cricket League. Overcast skies and a damp outfield welcomed MIT, on what appeared to be favorable conditions for bowling.

Captain Priyank Kumar G lost the toss and was put into bat by opposition captain Harnaresh Singh. Openers Fahad Mahmood G and Sourav Padhy walked to open MIT's proceedings. Playing the ball on merit, they gave MIT a solid start and calmed initial nerves. Nabeel Khan of Babson claimed his first scalp in the sixth over, with the score at 39 runs for the loss of 1 wicket.

Priyank Kumar G joined Fahad Mahmood at the crease and the two batsmen put on 60 runs for the second wicket when the skipper was dismissed for 11. What followed was a masterful batting display by opener Fahad Mahmood. He flayed the bowling to all corners of the ground with consummate skill and be-

came the first centurion for MIT. His innings of 169 of 74 balls at a strike rate of 228 percent became the highest ever individual score for a batsman in the history of the American College Cricket League. It included 17 sixes and 14 fours.

Babson finished at 188 for 7 of their 20 overs, giving MIT a massive 96-run victory to take them to the top of the league tables.

The Babson bowlers were stifled, as anything short was cut away over point, and anything full was driven over the top. He shared a partnership of 185 runs in 10 overs with Koustuban Ravi G, who scored 35 of 23 balls. MIT finished with a score of 284 for the loss of 2 wickets in their allocated 20 overs.

Faced with a stiff task of chasing 285 in their allocated 20 overs, Babson had to contend with the furious pace of Tughrul Ali G and seam bowling of Sivar-

aman Ramaswamy G. Tughrul Ali claimed his first wicket in his second over, leaving Babson reeling at 25 runs for the loss of 1 wicket. Babson's captain Harnaresh Singh led the fight against the opposition with beautiful strokes, but their progress was halted by Vice Captain Jehangir Amjad G in the ninth over.

Mohit Kansal G and Saad Shoukat '14 created many chances with their bowling, but Babson survived the next 3 overs without the loss of further wickets. Babson's skipper Harnaresh Singh was then dismissed by MIT spinner Usman Naseer G via a brilliant high catch by Jehangir Amjad for a solid 53 runs of 39 balls. With the asking rate beyond 20 runs an over, Babson were now well out of the game.

In an attempt to score more quickly, they lost two more quick wickets to the bowling of Usman Naseer. One of the wickets was due to an improbable diving catch by Saad Shoukat. Seamer Neev Wanvari 'G got two wickets in his return spell. Babson finished at 188 for 7 of their 20 overs, giving MIT a massive 96-run victory to take them to the top of the league tables. MIT will play Yale and Harvard in a double bill on May 3 and 4 before they break for finals.

UPCOMING HOME EVENTS

Saturday, May 03

Men's Heavyweight Crew vs. Cochrane Cup

8:24 a.m., Charles River

MIT softball drops final game of year

Engineers finish with 10-21 record

By Charlotte Brackett
DAPER STAFF

MIT scored first and took a two-run lead in the top of the third inning, before ultimately falling to 2013 NCAA Division III champion Tufts University at its final game of the 2014 season by a score of 4-3. Tech wrapped up the season with a record of 10-21, while the Jumbos improved to 33-3.

Eleanor E. Fodor '15 pitched a complete game, allowing seven hits and four runs and striking out three batters in six innings. She also went 1-for-2 and scored the first run of the game. Natalie J. Shifflet '17 led the Engineers with her two runs, going 1-for-2, and Ali M. Trueworthy '17 led with her two RBI.

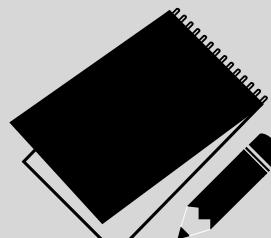
Locked at zero until the top of the third, Fodor led off with a double to right field and made it to third when Shifflet singled to left field and advanced to second on the throw. Both runners scored on a two-RBI double by Trueworthy to give the Cardinal and Gray a slight edge over

the Jumbos early on in the game.

Tufts took a one-run lead in the bottom of the inning when Bri Keenan, Jo Clair and Sara Hedtler were able to score off three hits. The Jumbos maintained that edge until the top of the fifth, when the Engineers tied the score at three. Monica C. Shifflet '17 singled and was out at second when her sister, Natalie Shifflet, reached first on a fielder's choice. On a Trueworthy single, Natalie Shifflet was able to make it to second.

On a base hit by Mackenzie K. Donnelly '17, both advanced a base and Shifflet was able to score her second run of the day on an error by the second baseman. The bases were loaded on a single by Victoria M. Jensen '16, but all three were left on base when the third out occurred. The Jumbos responded in the bottom of the fifth, scoring the game-winning run in the form of a homer by Clair. With zero hits and two left on base in the remaining two innings, the game ended with a Tufts victory.

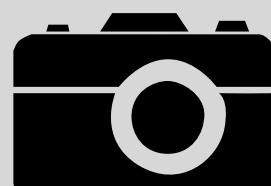
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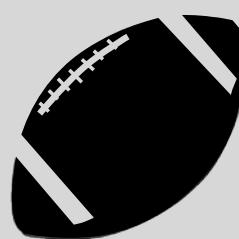
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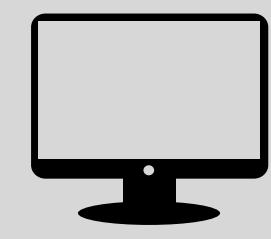
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